

17th Multidisciplinary Management of Cancers: A Case-based ApproachMultidisciplinary Management of
Cancers

Thoracic Oncology Tumor Board

Session Chair

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17th Multidisciplinary Management of Cancers: A Case-based Approach

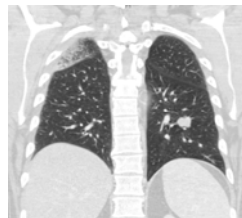
Panel Members

- **Deepti Behl, MD** – Medical Oncology, Sutter Sacramento
- **Colin Blakely, MD, PhD** – Assistant Professor of Medicine, UCSF
- **Lisa M. Brown, MD, MAS** - Assistant Professor of Thoracic Surgery, UC Davis
- **Megan Daly, MD** – Assistant Professor of Radiation Oncology, UC Davis
- **David Gandara, MD** – Professor of Thoracic Medical Oncology, UC Davis
- **Matthew Gubens, MD** – Assistant Professor of Medicine, UCSF
- **Billy Loo, MD, PhD, DABR** – Associate Professor of Radiation Oncology, Stanford
- **Joseph Shrager, MD** – Professor of Cardiothoracic Surgery, Stanford
- **Michael Mancuso, MD, PhD** – Fellow in Oncology, Stanford

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Case 1

58 year-old man, non-smoker, incidentally noted to have a 2.3 cm lesion in his left lower lobe on a CT scan of the chest obtained while being treated for pneumonia.



Question 1.1. How do you proceed with diagnosis and staging?

1. Percutaneous biopsy
2. Wedge resection
3. Whole body PET-CT
4. No further work-up required

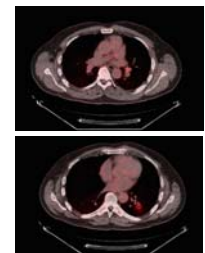
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Case 1

Percutaneous CT guided needle biopsy reveals adenocarcinoma

PET/CT is performed and shows:

- 1.) 2.5 x 2.1 cm left lower lobe lesion with an SUV of 7.4
- 2.) Left hilar lymph node with an SUV of 5.7.
- 3.) No other PET positive lesions noted







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Case 1

Question 1.2. Would you stage the mediastinum prior to lobectomy? If so, how?

1. Yes, Endobronchial Ultrasound and Biopsy
2. Yes, Mediastinoscopy
3. No (mediastinal lymphadenectomy with staged lobectomy)





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Case 1

The patient undergoes left VATS upper lobectomy with mediastinoscopy. PS = ECOG 1 after surgery.

Pathology reveals invasive, moderately-differentiated adenocarcinoma, measuring 2.5 cm, 1/12 lymph nodes positive for cancer (left hilar). Final pathology was pT1b pN1 (stage IIA, per TNM staging 7th edition; TNM 8th edition pT1c pN1, stage IIB). Margins are negative.

While not currently standard of care in early stage disease, molecular testing is obtained and reveals EGFR L858R mutation.





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Updates to TNM staging of non-small cell lung cancer (effective January 1, 2018)

T-stage	7 th edition	8 th edition
≤ 1 cm	T1a	T1a
> 1-2 cm	T1a	T1b
> 2-3 cm	T1b	T1c
> 3-4 cm	T2a	T2a
> 4-5 cm	T2a	T2b
> 5 cm-7 cm	T2b	T3
Bronchi < 2 cm from carina	T3	T2
Atelectasis/pneumonitis	T3	T2
Invasion of diaphragm	T3	T4
Invasion of mediastinal pleura	T3	-

N component	7 th edition	8 th edition
+/- LN involvement	N0, N1, N2 N3	N0, N1, N2 N3





M component	7 th edition	8 th edition
Metastasis within thoracic cavity	M1a	M1a
Single extrathoracic metastasis	M1b	M1b
Multiple extrathoracic metastasis	M1b	M1c

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Descriptor in 7 th edition	T-stage (8 th edition)	N categories			
		Overall Stage 8 th edition (7 th edition)			
		N0	N1	N2	N3
T ≤ 1 cm	T1a	IA1 (IA)	IIB (IIA)	IIIA	IIIB
T1 > 1-2 cm	T1b	IA2 (IA)	IIB (IIA)	IIIA	IIIB
T1 > 2-3 cm	T1c	IA3 (IA)	IIB (IIA)	IIIA	IIIB
T2 > 3-4 cm	T2a	IB	IIB (IIA)	IIIA	IIIB
T2 > 4-5 cm	T2b	IIA (IIB)	IIB (IIA)	IIIA	IIIB
T2 > 5-7 cm	T3	IIB (IIA)	IIA (IIB)	IIB (IIA)	IIC (IIB)
T3 structures	T3	IIB	IIA	IIB (IIA)	IIC (IIB)
T3 > 7 cm	T4	IIA (IIB)	IIA	IIB (IIA)	IIC (IIB)
T3 diaphragm	T4	IIA (IIB)	IIA	IIB (IIA)	IIC (IIB)
T3 endobronchial location/atelectasis 4-5 cm	T2b	IIA (IIB)	IIB (IIA)	IIIA	IIIB
T4	T4	IIIA	IIA	IIIB	IIC (IIB)

■ Upstaged from 7th to 8th edition
■ Downstaged from 7th to 8th edition

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Case 1

Question 1.3. Do you offer adjuvant therapy to this 58 year-old man with no medical comorbidities and with a 2.5 cm adenocarcinoma of the lung with a positive hilar LN staged as TNM 7th edition pT1b pN1, stage IIA or TNM 8th edition pT1c pN1, stage IIB and negative margins after surgery? If so, what approach do you choose?

1. Adjuvant cytotoxic chemotherapy
2. Adjuvant radiation therapy
3. Adjuvant EGFR TKI therapy (such as erlotinib)
4. Adjuvant cytotoxic chemotherapy followed by adjuvant EGFR TKI therapy
5. No additional therapy

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Case 1

Question 1.4. Which cytotoxic chemotherapy regimen would you recommend for this patient with 2.5 cm adenocarcinoma of the lung who is TNM 7th edition pT1b pN1, stage IIA or TNM 8th edition pT1c pN1, stage IIB?

1. Carboplatin-Paclitaxel-Bevacizumab
2. Carboplatin-Pemetrexed
3. Cisplatin-Pemetrexed-Bevacizumab
4. Cisplatin-Pemetrexed
5. Cisplatin-Vinorelbine

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Case 1

Question 1.5. Would your treatment be different if he had a **positive** margin after surgery? If so, what approach do you choose? He is a 58 year-old man, with no medical comorbidities and with TNM 7th edition pT1b pN1, stage IIA or TNM 8th edition pT1c pN1, stage IIB disease (2.5 cm adenocarcinoma of the lung with a positive hilar LN).

1. Adjuvant chemotherapy only
2. Radiation therapy only
3. Sequential chemotherapy followed by radiation therapy
4. Sequential radiation therapy followed by chemotherapy
5. Combination chemoradiation therapy
6. Surgical re-resection

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Case 1

Question 1.6. If the lymph nodes were all negative for cancer, would you offer adjuvant cisplatin-based chemotherapy for this patient if he were hypothetically TNM 7th edition Stage IA (pT1b pN0) or TNM 8th edition Stage IA3 (pT1c pN0) with a 2.5 cm adenocarcinoma?

1. Yes
2. No

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Case 1

Question 1.7. If the lymph nodes were negative for cancer and his tumor was 4.1 cm in size and staged as TNM 7th edition T2a N0 M0, **stage IB** or as TNM 8th edition T2b N0 M0, **stage IA**, would you offer adjuvant cisplatin based chemotherapy if his surgical margin was negative?

1. Yes
2. No

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Case 1

Question 1.8. Returning back to our 58 year-old man with a left 2.5 cm adenocarcinoma with a positive left hilar lymph node, how frequently would you monitor this patient after completing therapy? What imaging modality would you choose in addition to H+P?

1. CT chest every 3-6 months for 3 years and then every 6-12 months through 5 years
2. #1 with alternating PET/CT
3. #1 with MRI brain annually
4. #1 with annual low dose chest CT after 5 years
5. #1 with regular chest CT every 1-2 years for 10 years

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Case 1

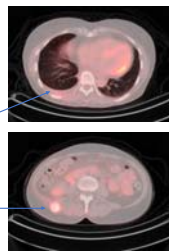
4 cycles of cisplatin/pemetrexed are completed.

Follow-up CT thorax at 6 months following surgery is clear.

Follow-up CT thorax at 12 months shows a new 13 mm lucent expansile lesion in the right rib and a new right pleural effusion.

PET/CT also identifies an FDG avid right flank lesion

MRI brain is negative

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Case 1

Question 1.9. Do you obtain a biopsy of a new lesion? If so, do you also order repeat molecular testing (he has known EGFR L858R mutation in the original tumor)?

1. Obtain a tissue biopsy and order EGFR mutation testing
2. Obtain a tissue biopsy and do not order EGFR mutation testing
3. Proceed directly to treatment with targeted therapy given known history of EGFR L858R mutated adenocarcinoma of the lung

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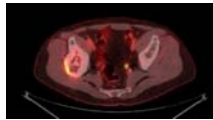
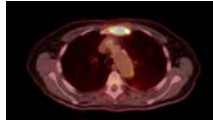
Case 1

Biopsy of the right flank region shows adenocarcinoma CK7+ TTF1+.

PD-L1 staining (22C3) is positive in 20% of cells

The patient is started on erlotinib 150 mg daily with good response to therapy.

Imaging 12 months later reveals progression of disease with new bone lesions at the sternum and right hip.

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Case 1

Question 1.10. What is your next step in management?

1. Plasma or urine testing for EGFR T790M activating mutation
2. Obtain a tissue biopsy with repeat molecular testing for EGFR
3. #1, then if negative for T790M, #2 above
4. Continue erlotinib
5. Change therapy to cytotoxic chemotherapy
6. Change therapy to immunotherapy

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Case 1

Molecular testing from the plasma identifies a new T790M mutation.

Question 1.11. Which systemic therapy do you choose?

1. Osimertinib
2. Platinum + pemetrexed +/- bevacizumab
3. Carboplatin + paclitaxel +/- bevacizumab
4. Gefitinib
5. Afatinib
6. Pembrolizumab
7. Nivolumab
8. Atezolizumab

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Case 1


Question 1.12. If the plasma and tissue based EGFR mutation assays were negative for T790M mutation, what would your next step be?

1. Osimertinib
2. Platinum + pemetrexed +/- bevacizumab
3. Carboplatin + paclitaxel +/- bevacizumab
4. Gefitinib
5. Afatinib
6. Pembrolizumab
7. Nivolumab
8. Atezolizumab

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Case 1: Take-away points

- We are transitioning to the eighth edition of the TNM staging system in lung cancer
- Cisplatin based adjuvant therapy is still recommended for resected stage II and higher NSCLC
- For EGFR positive NSCLC, testing should be done for the T790M resistance mutation, which confers sensitivity to 3rd generation EGFR TKIs.

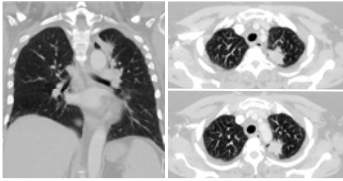


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Case 2

65 year-old woman, who is a former smoker (40 pack year smoking history and quit 20 years ago) presents with one year hoarse voice and difficulty speaking.

ENT evaluation identifies vocal cord paralysis



CT scan neck/chest with contrast showed 3 cm left apical mass with pathologically enlarged mediastinal and left hilar lymph nodes with likely involvement of the left recurrent laryngeal nerve




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Case 2

Question 2.1. What is your next step in management?

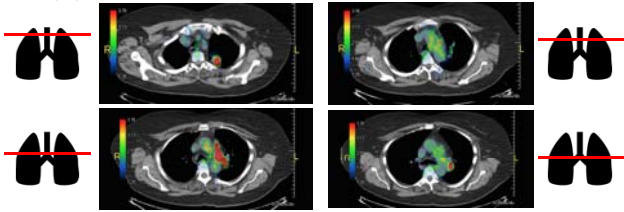

1. Imaging with whole body PET/CT and MRI brain
2. Percutaneous biopsy of the primary mass
3. EBUS biopsy
4. Staged mediastinoscopy followed by lobectomy if negative



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Case 2

PET/CT: 3.1 cm left upper lobe mass with SUV 14.9. Increased activity in left hilar and AP window lymph nodes with max SUV10.7. No evidence of metastatic disease.

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Case 2

CT-guided biopsy of the lymph node mass reveals poorly differentiated adenocarcinoma (CK7 positive, TTF-1 positive, CK20 negative).

MRI brain is pending

PET/CT scan is obtained

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Case 2

Question 2.2. What therapy do you recommend for this patient with NSCLC TNM 7th edition clinical stage IIIA (T2a N2 M0) or Stage IIIA TNM 8th edition (T2a N2 M0)?

1. Induction chemoradiation → surgery
2. Systemic therapy only
3. Chemotherapy → surgery
4. Concurrent chemoradiation (without surgery)
5. Induction chemotherapy followed by radiotherapy

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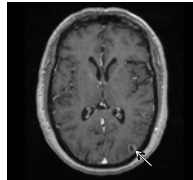
Case 2

A multidisciplinary plan is made, based on TNM 7th edition stage IIIA disease, to start therapy with cisplatin/etoposide (EP) 50/50 with concurrent IMRT radiation without plans for surgical resection.

Prior to the start of therapy, MRI brain reveals multiple metastatic lesions and the plan to pursue chemoradiation therapy is deferred.

Molecular testing is performed on the original biopsy specimen is performed:

- Negative for ALK and ROS1 rearrangements by FISH
- Negative for EGFR mutation

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Case 2

Question 2.3. What testing do you order to determine if the patient would benefit from first-line immunotherapy with PD-1 blockade?

1. Molecular testing for PD-1 mutations
2. Molecular testing for PD-L1 mutations
3. Immunohistochemical staining of PD-L1 expression levels with antibody 22C3
4. Immunohistochemical staining of PD-L1 expression levels with another antibody
5. No testing necessary



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Case 2

Approximately 70% of the cells in her biopsy specimen stain positive for PD-L1 using the 22C3 antibody reagent.

Question 2.4. What first line systemic therapy would you offer?

1. Platinum based chemotherapy
2. Pembrolizumab
3. Nivolumab
4. Atezolizumab
5. Chemotherapy + therapy targeting PD-1/PD-L1

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Case 2

Question 2.7. If this patient were a non-smoker and PD-L1 IHC was still 70%, which therapy would you offer?

1. Platinum based chemotherapy
2. Pembrolizumab
3. Nivolumab
4. Atezolizumab
5. Chemotherapy + therapy targeting PD-1/PD-L1

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Case 2: Take-away points

Patients with stage III NSCLC should be evaluated by a multidisciplinary team

Chemotherapy, radiation, and surgery all can be part of the treatment of stage III NSCLC

Pembrolizumab may be given front-line for metastatic NSCLC if PD-L1 expression positive ($\geq 50\%$) and EGFR, ALK, ROS1 negative, regardless of smoking status

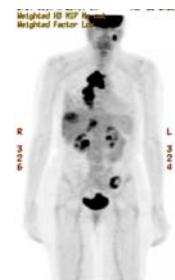
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Case 3

55 year-old woman, who has never smoked, presented with shortness of breath of two months duration and was found to have metastatic squamous cell carcinoma of the right lung.

Molecular testing is negative for EGFR mutation and FISH is negative for ALK or ROS1 rearrangements.

10% of tumor cells express PD-L1 (with antibody 22C3)



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Case 3

Question 3.1. In this previously untreated advanced squamous non-small cell lung cancer patient, which regimen would you give as first line therapy?

1. Platinum based chemotherapy (consider which doublet)
2. Therapy targeting PD-1/PD-L1
3. Chemotherapy + therapy targeting PD-1/PD-L1

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Case 3

She receives 3 cycles of chemotherapy with carboplatin/paclitaxel with response

Imaging after her 6th cycle of chemotherapy shows disease progression. PD-L1 testing was 10% positive.

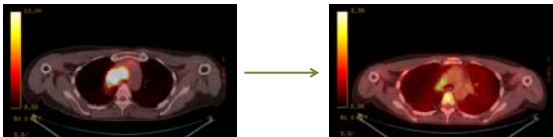
Question 3.2. Which therapy do you choose in a patient with metastatic squamous cell carcinoma of the lung who has progressed after first-line chemotherapy?

1. Docetaxel
2. Gemcitabine
3. Nab-paclitaxel
4. Pembrolizumab
5. Nivolumab
6. Atezolizumab

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Case 3

She is started on nivolumab with excellent response as shown after 3 months.



Questions 3.3. How often would you monitor this patient for response to therapy and for toxicity?

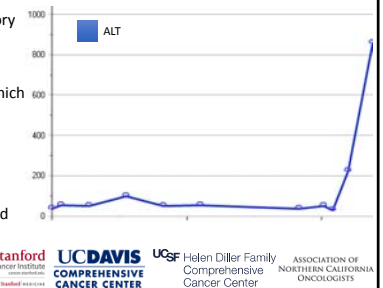
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Case 3

After 6 months on nivolumab, laboratory studies show increase in serum aminotransferase levels

Question 3.4. Given these findings, which course of action would you take?

1. Continue nivolumab
2. Continue nivolumab AND initiate steroid therapy
3. Stop nivolumab and monitor
4. Stop nivolumab AND initiate steroid therapy



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Case 3

Nivolumab is held and steroid therapy is initiated with improvement in her serum aminotransferase levels. Steroids are stopped and she is re-started on nivolumab, but they worsen again.

Question 3.5. What is your next step in management?

1. Continue nivolumab AND restart steroid therapy
2. Stop nivolumab and monitor
3. Stop nivolumab AND restart steroid therapy

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Case 3

Nivolumab continues to be held.

Steroid dose is restarted and increased without immediate improvement

Hepatology recommends mycophenolate mofetil if her AST/ALT continue to increase

Fortunately, her AST and ALT normalize on higher doses of steroids

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Case 3

While nivolumab is held due to her elevated AST and ALT, PET/CT scan shows development of a pleural based nodule as shown. The remainder of disease is still controlled.

Question 3.6. How do you manage this lesion?

1. Re-initiate anti-PD1 therapy
2. Radiation therapy to the lone site of disease
3. Cytotoxic chemotherapy

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Case 3: Take-away points

Anti-PD-1/PD-L1 therapies are active in metastatic squamous NSCLC in the first or second line setting

Side-affects of PD-1/PD-L1 inhibitors include autoimmune phenomena such as pneumonitis, hepatitis, colitis, adrenalitis, and thyroiditis

Patients with autoimmune complications from PD-1/PD-L1 inhibitors can have improvement with steroids and considered for specialist referral

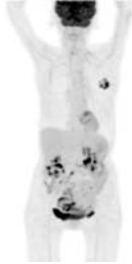
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Case 4

A 84 year-old woman, never smoker, with hypertension, diabetes, and peripheral vascular disease presents with cough and is found to have a 3 cm solitary lung nodule on imaging. No additional evidence of disease is found on PET/CT.

CT guided percutaneous biopsy shows adenocarcinoma of lung origin.



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Case 4

Question 4.1. What therapy do you recommend for an 84 year-old patient with hypertension, diabetes, peripheral vascular disease and a 3 cm solitary ALK rearranged node negative NSCLC that is TNM 7th edition Stage IB (T2a N0 M0) or TNM 8th edition Stage IB (T2a N0 M0)?

1. Lobectomy or wedge resection
2. Lobectomy or wedge resection followed by adjuvant chemotherapy
3. Stereotactic radiation therapy
4. Stereotactic radiation therapy followed by adjuvant chemotherapy
5. Treatment with an ALK tyrosine kinase inhibitor
6. Treatment with Pembrolizumab

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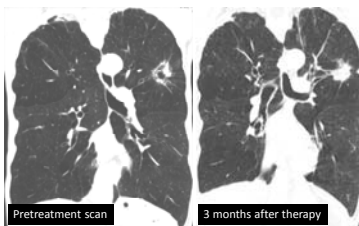
Case 4

She decides to pursue stereotactic radiation therapy.

CT scans from before treatment and 3 months after therapy are shown.

Question 4.2. For the three years after therapy, how is response monitored after radiation therapy to a solitary lesion?

1. CT ± contrast every 3-6 months
2. CT ± contrast every 6 months with MRI brain every 12 months
3. PET CT every 3-6 months
4. PET CT every 3-6 months with MRI brain every 12 months



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Case 5

51 year-old woman presents with right upper quadrant pain and undergoes CT scan which shows CT chest 12.9 cm x 4.5 cm x 10 cm mass in the right costophrenic angle, multiple pleural-based masses, and a large right pleural effusion.

Question 5.1. What additional studies do you obtain?

1. CT guided needle biopsy
2. VATS biopsy
3. No additional studies necessary, mesothelioma is a clinical diagnosis.



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Case 5

VATS biopsy reveals neoplastic cells positive for calretinin, CK mix, and CK5/6, negative for MOC31, p63, CD34 and S100. Findings consistent with malignant mesothelioma, deciduoid (epithelioid variant) type.

Question 5.2. What treatment do you recommend?

1. Pleurectomy/decortication
2. Extrapleural pneumonectomy
3. Hemithoracic radiation therapy
4. Chemotherapy alone
5. Neoadjuvant chemotherapy followed by surgery
6. Chemotherapy and radiation
7. Trimodality therapy: neoadjuvant chemotherapy, surgery, adjuvant radiation

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Case 5

Her case is presented at multidisciplinary tumor board and a plan is made for 3 cycles of neoadjuvant chemotherapy followed by repeat imaging to determine if the chest wall invasion regresses to make her a candidate for pleurectomy with decortication.

Questions 5.3. What systemic therapy do you choose?

1. Cisplatin, pemetrexed
2. Cisplatin, pemetrexed, bevacizumab
3. Vinorelbine

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Case 5

Questions 5.4. If she has a good response and proceeds with pleurectomy with decortication, what would be your next step in management?

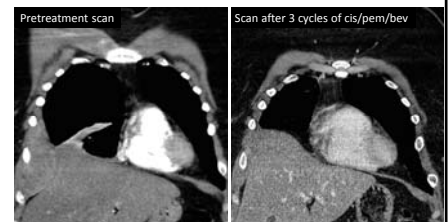
1. Surveillance
2. Additional adjuvant chemotherapy
3. Adjuvant radiation therapy
4. Immunotherapy with anti-PD-1/PD-L1

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Case 5

She receives 3 cycles of cisplatin (75 mg/m²)/pemetrexed (500 mg/m²), with bevacizumab (15 mg/kg) added to cycles 1 and 2, with response to therapy as shown.

She is ineligible for pleurectomy/decortication based on chest wall invasion.



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Case 5

She completes a total of 6 cycles of cisplatin/pemetrexed/bevacizumab with good response.

Questions 5.5. If follow-up imaging at 6 months shows disease recurrence, what second-line chemotherapy do you offer?

1. Gemcitabine
2. Anti PD-1/PD-L1 immunotherapy
3. Retreat with cisplatin + pemetrexed
4. Vinorelbine

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Case 5: Take-away points

Malignant pleural mesothelioma has a median overall survival of 18-36 months depending on performance status, stage, and histological sub-type

First-line chemotherapy for malignant pleural mesothelioma is platinum with pemetrexed, and optionally bevacizumab in eligible patients

Patients who are surgical candidates should be referred to specialized centers with experience in mesothelioma to be considered for pleurectomy/decortication or extrapleural pneumonectomy as part of trimodality therapy

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Thank you!

Questions?

